



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/15/2011

Marcia Slingerland  
Assistant District Attorney, Essex County

Dear ADA Slingerland,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Daniela Frasca.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Daniela Frasca was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan", with a long horizontal flourish extending to the right.

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- \*Maintenance and repairs of all analytical instruments.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)  
GLP/GMP training with Massachusetts Biologic Laboratory.  
QC/QA training according to FDA Codes and Regulations.  
GC and GC/MS trainings with Agilent Technologies and Restek.  
HPLC and LC/MS/MS trainings with Waters Cooperation.  
FTIR training with Spectros.  
TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Daniela Frasca

### Education

**Boston University School of Medicine, Boston MA**

*Currently enrolled in the Biomedical Forensic Science MS Program*

**Suffolk University, Boston, MA**

*Graduated in 05/1996 and received a Bachelor of Science in Biochemistry*

### EXPERIENCE

**Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA** 01/2001 – present

Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

**Quest Diagnostics Incorporated, Cambridge, MA**

09/1996 – 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

### Additional Training

**Northeastern Association of Forensic Scientists**

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

**McCrone Research Institute**

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

**Massachusetts State Laboratory Institute**

Expert Witness

Raman Spectroscopy

### Associations and Programs

- Northeastern Association of Forensic Scientists (NEAFS) 2001 - present
- The International Association of Forensic Toxicologists (TIAFT) 2003 - present
- The International Association of Therapeutic Drug Monitoring And Clinical Toxicology (IATDMCT) 2003 - present
- Massachusetts State Science Fair Judge 2000 - present
- Middle School State Science Fair Judge 2006 - present
- Volunteer Science Project Mentor/Tutor 2003 - present  
for the TTT Mentor Program

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00


Amherst Hours

9:00 – 12:00


1:00 – 3:00

**DRUG RECEIPT**

City or Department: PEABODY

Police Reference No.: 

Name and Rank of Submitting Officer: Sgt Scott C. Richards

Defendant(s) Name (last, first, initial):  


To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

6 PB CONT. A WHITE ROCKY SUBSTANCE

3.08 gm

12.78 gm

8 PB CONT. GREEN LEAFY SUBSTANCE

12.78 gm

3.48 gm

Received by: AS

Date: 7-6-10

No. [REDACTED]  
City: Peabody Police Dept.  
Officer: Detective Sergeant SCOTT RICHARDS  
Def: [REDACTED]

Date Analyzed: 09-27-10

Amount:

Subst: SUB

No. Cont: 6 Cont: pb

Date Rec'd: 07/06/2010

No. Analyzed: 1

Gross Wt.: 3.08

Net Weight: 0.12g

# Tests: 7

Prelim: *Cocaine*

Findings: *2 ASD*  
*Cocaine*

No. [REDACTED]  
City: Peabody Police Dept.  
Officer: Detective Sergeant SCOTT RICHARDS  
Def: [REDACTED]

Date Analyzed: ✓

SEP 24 2010

Amount: *6.11g*

Subst: VM

No. Cont: 8 Cont: pb

Date Rec'd: 07/06/2010

No. Analyzed: 1

Gross Wt.: 17.78

Net Weight:

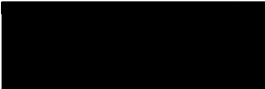
# Tests: *Macro*  
*Micro*  
*D-L t*

Prelim:

Findings: *Marijuana*

DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Peabody

ANALYST

VAM

PHYSICAL DESCRIPTION:



Tested EV. MCK

Substance in 6 PB

Marg -

Gross wt. 1.0244g

Proed -

Meck -

Gross wt of  
1 analyzed: 0.1695g

Cobalt -, +Mack

Gold +

Net wt of  
1 analyzed: 0.1282g

TLTA -, +Mack

PRELIMINARY TEST RESULTS

RESULTS

Cocaine

DATE

9/21/10

GC/MS CONFIRMATORY TEST

RESULTS

Cocaine

MS  
OPERATOR

VAM

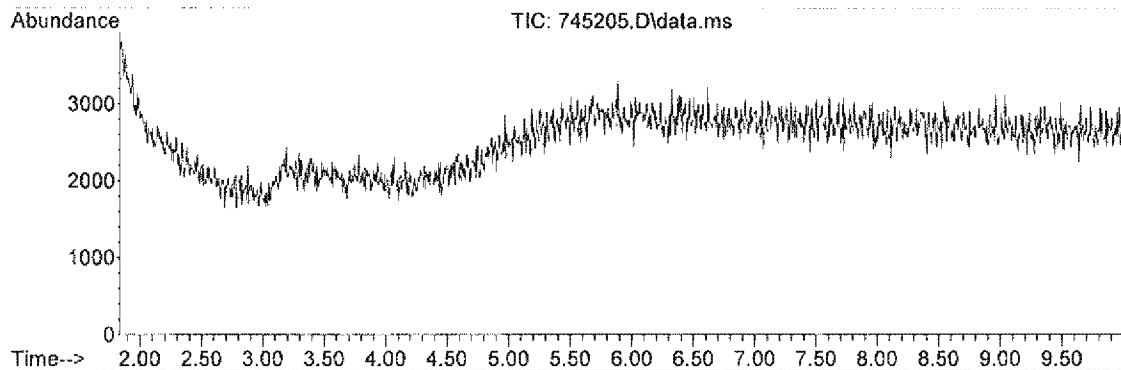
ASD

DATE

9/27/10

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745205.D  
Operator : ASD  
Date Acquired : 24 Sep 2010 16:46  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

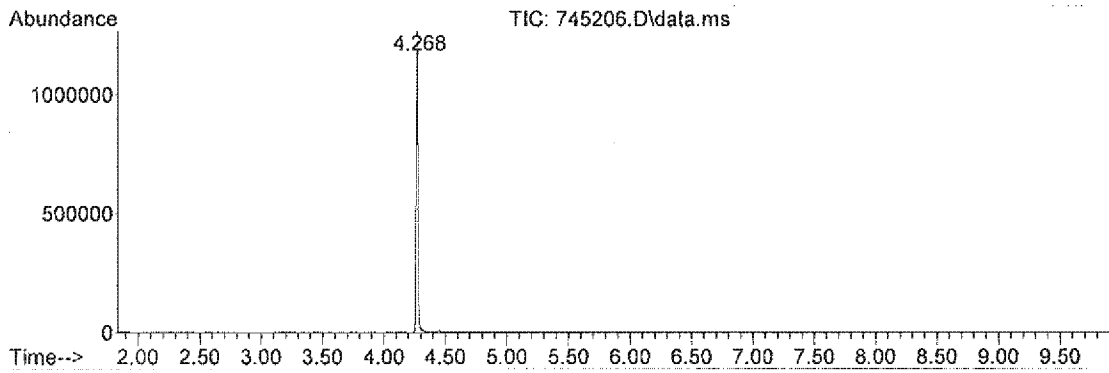
# Area Percent / Library Search Report

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File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745206.D  
 Operator : ASD  
 Date Acquired : 24 Sep 2010 16:59  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.268	1241395	100.00	100.00

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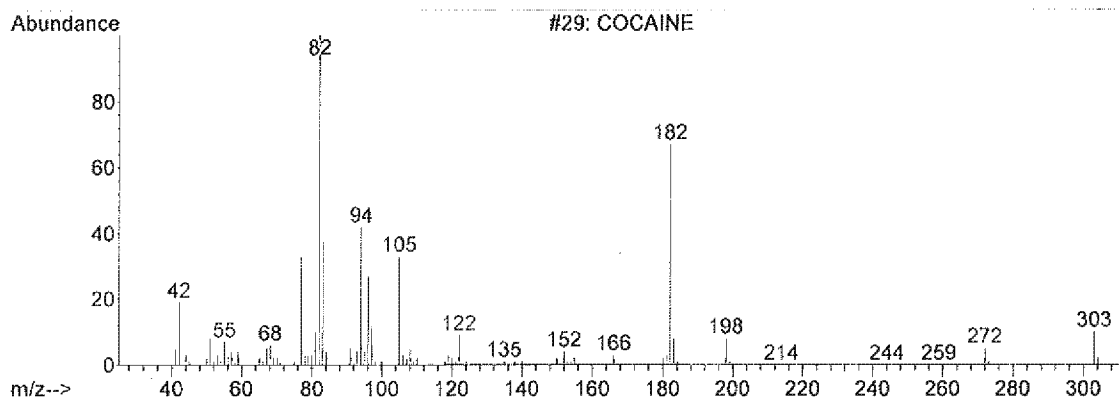
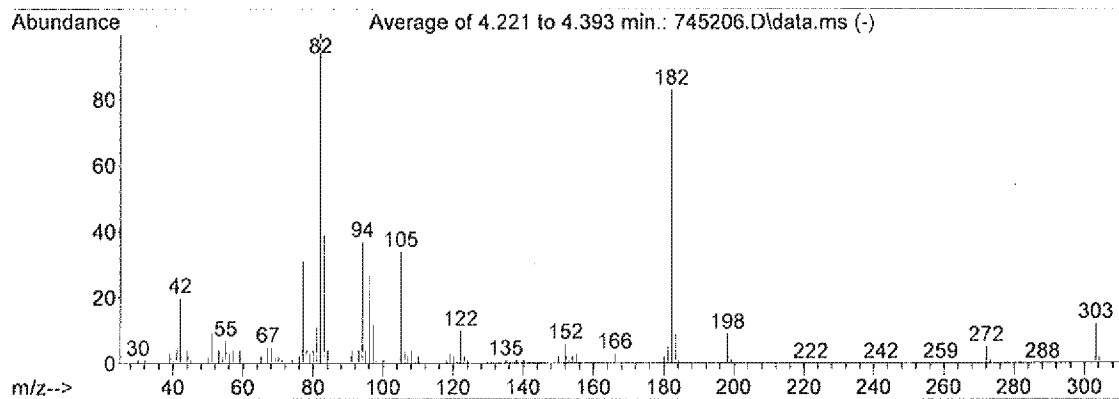
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 Date Acquired : 24 Sep 2010 16:59  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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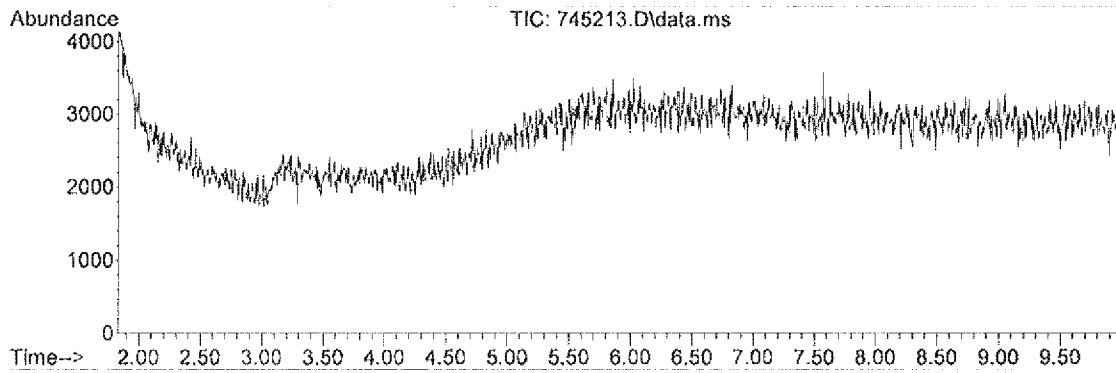
Area Percent / Library Search Report

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Operator : ASD  
Date Acquired : 24 Sep 2010 18:29  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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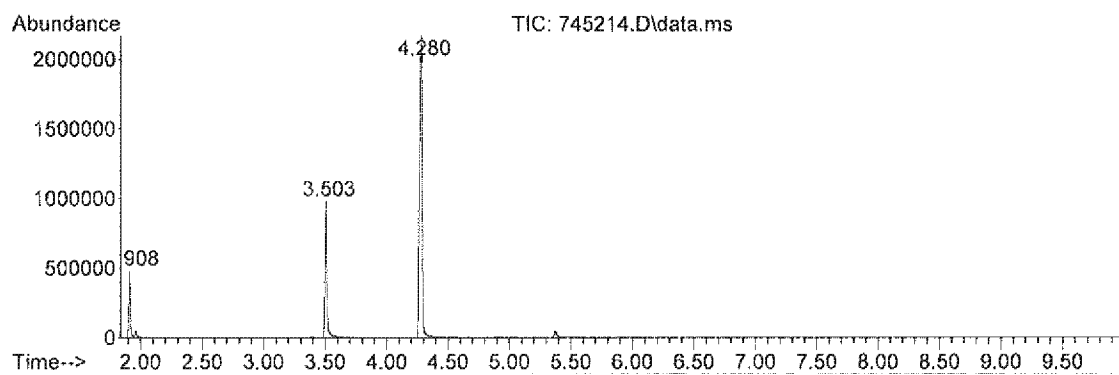
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

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 Operator : ASD  
 Date Acquired : 24 Sep 2010 18:42  
 Sample Name : XXXXXXXXXX  
 Submitted by : DXF  
 Vial Number : 14  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



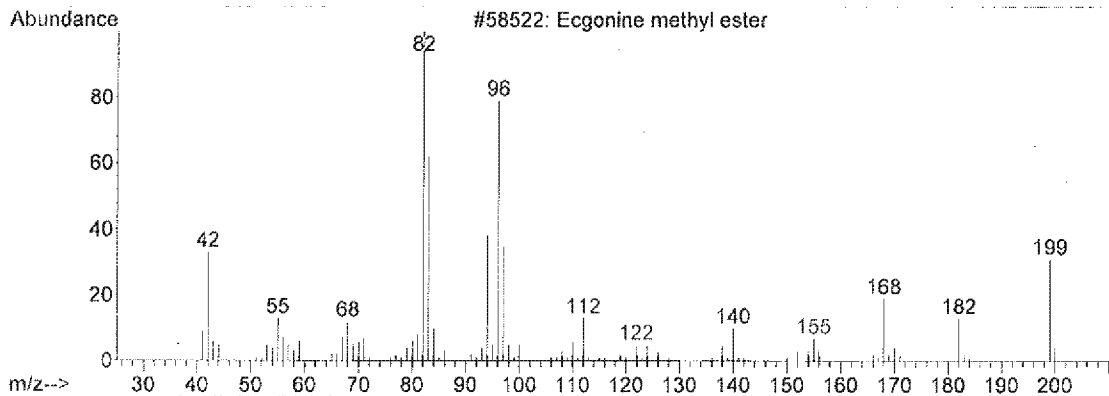
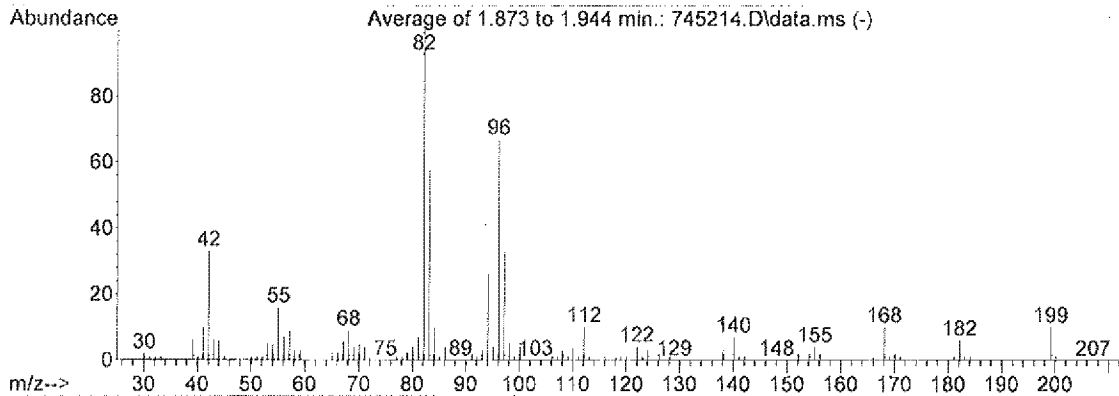
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3.503	1059753	21.53	30.61
4.280	3462622	70.34	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745214.D  
Operator : ASD  
Date Acquired : 24 Sep 2010 18:42  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	1.91	C:\Database\NIST08.L		
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		Ecgonine methyl ester	106293-60-1	98
		Ecgonine methyl ester	106293-60-1	97

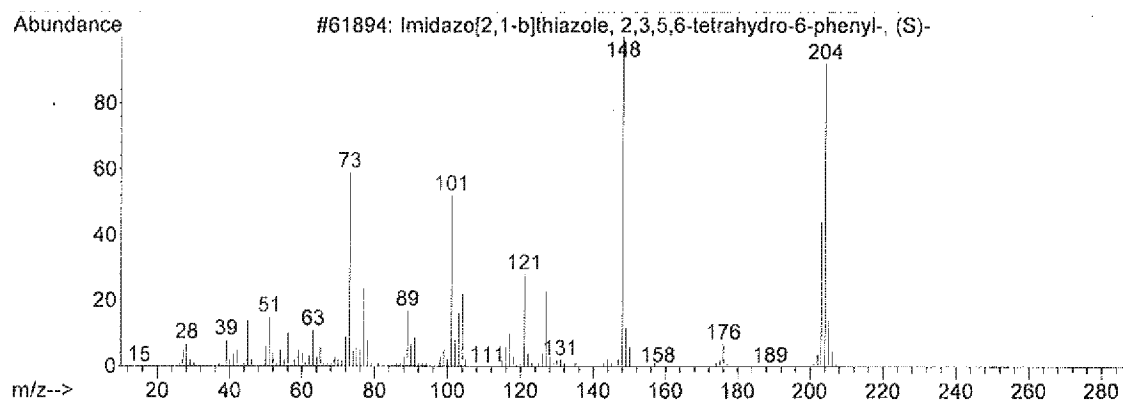
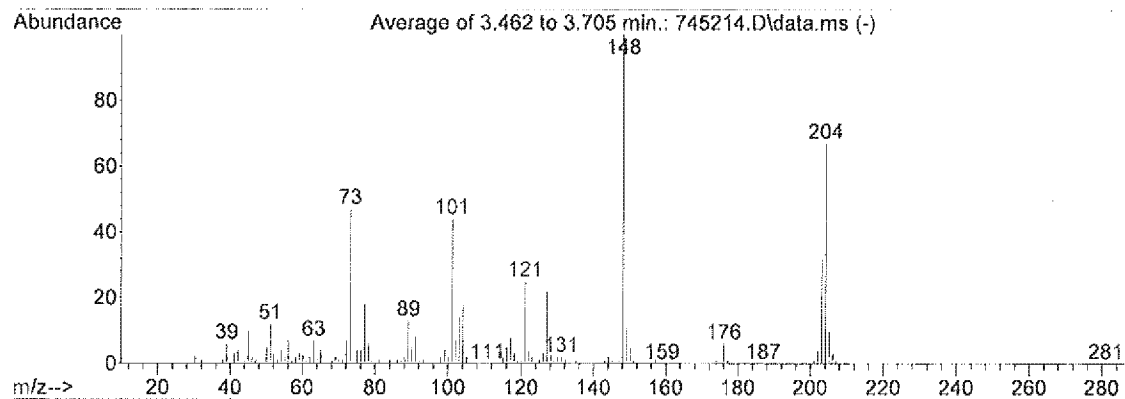


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745214.D  
Operator : ASD  
Date Acquired : 24 Sep 2010 18:42  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	3.50	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	99
		Levamisole	006649-23-6	99

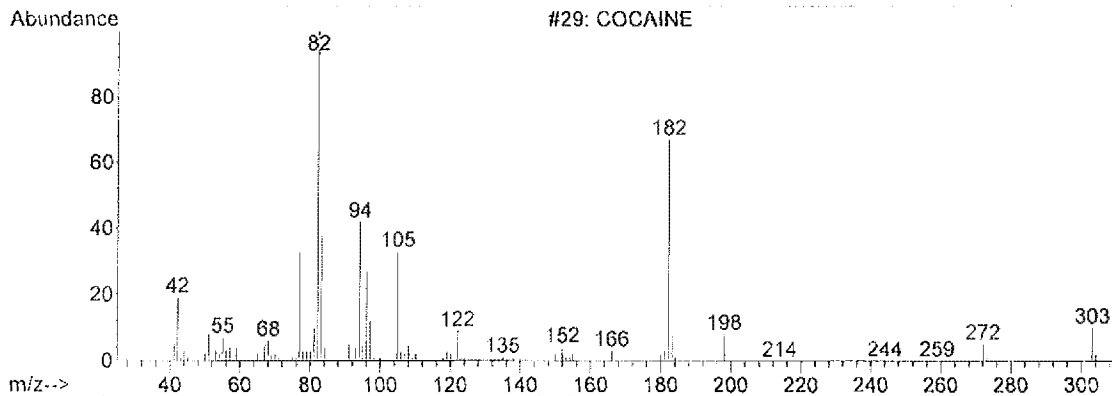
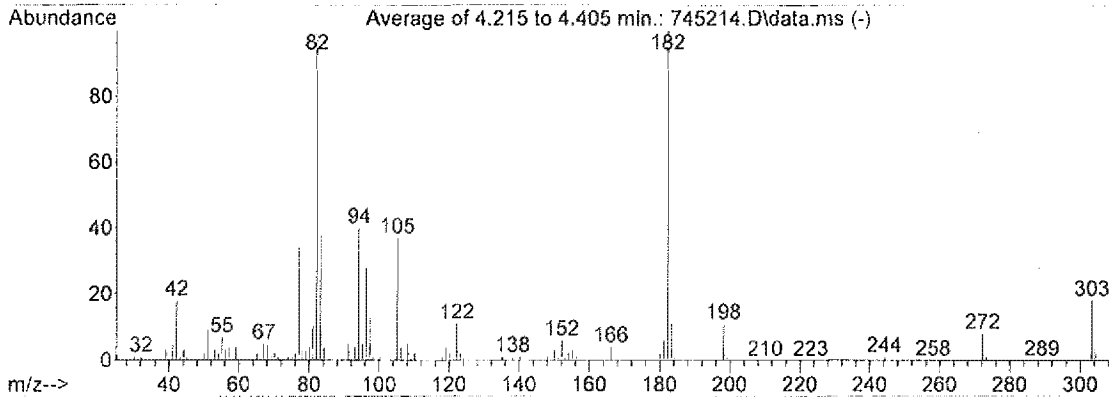


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Operator : ASD  
Date Acquired : 24 Sep 2010 18:42  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

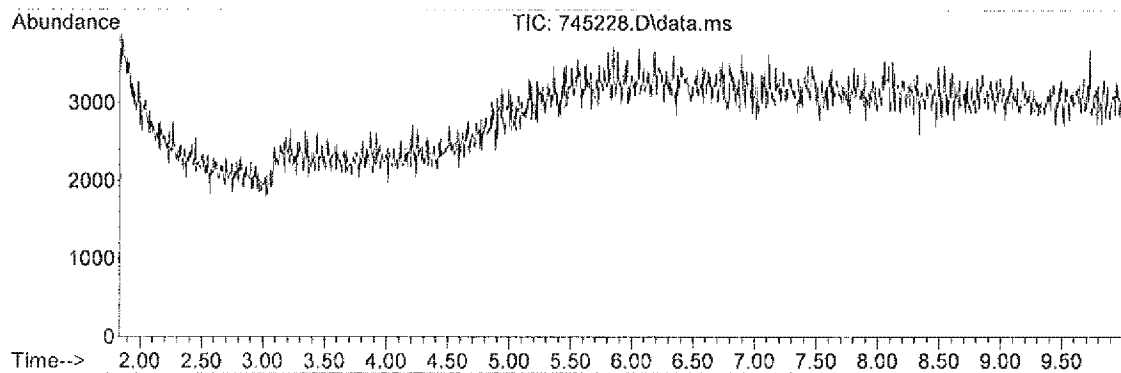
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.28	C:\Database\SLI.L COCAINE	000050-36-2	99



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Operator : ASD  
Date Acquired : 24 Sep 2010 21:42  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

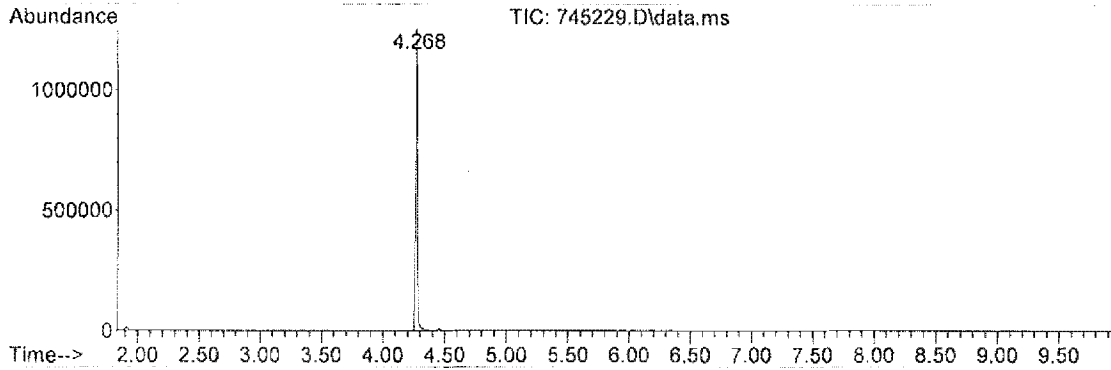


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745229.D  
Operator : ASD  
Date Acquired : 24 Sep 2010 21:55  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 6  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.268	1284549	100.00	100.00



# Area Percent / Library Search Report

**Information from Data File:**

File Name : C:\msdchem\1\data\SYSTEM6\09\_24\_10\745229.D  
 Operator : ASD  
 Date Acquired : 24 Sep 2010 21:55  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.27	C:\Database\SLI.L COCAINE	000050-36-2	99

